

PROCEEDINGS OF THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON

SERIES C. JOURNAL OF MEETINGS

VOLUME 18.

No. 12, 1953

REPORT OF THE COUNCIL, 1953

Council is pleased to be able to report encouraging progress in the present activities of the Society.

Early in the year Council had under consideration certain amendments to the Society's Bye-Laws, made desirable more by changed external conditions than any modification in the policy of the Society. The changes were adopted at the Special Meeting held on 6th May. Under the revised Bye-Laws the Society now consists of Honorary and Ordinary Fellows (the old categories of Special Life and Honorary Fellows having been amalgamated), and Fellows under the age of 25 on the date of their election are exempt from the payment of the entrance fee. Opportunity was also taken to change the date of the Annual Meeting to the first Wednesday in February, to provide for the rather longer time now required for the preparation of the Society's accounts.

Ten Ordinary Meetings have been held in the year. These have continued to be well attended, the average attendance of 97 being the same as for the previous year.

A wide range of interests has been catered for in the set papers, and exhibits are welcomed at all Ordinary Meetings. In accordance with the precedent of the last few years, one meeting was devoted to small communications and again proved successful.

Council is always happy to extend the hospitality of its rooms and meetings to visitors from abroad, and it has again been a pleasure to welcome a number of entomologists from overseas.

The rapid increase in the Fellowship which followed the war has continued. During the year 93 (80)* Fellows have been elected, of whom 72 completed their Obligation. In addition, 9 Fellows elected in 1952 completed their Obligation in 1953.

The Society has lost by death 11 (13) Ordinary Fellows: E. D. Bostock, Miss W. E. Brenchley, C. J. Brooks, G. D. Hale Carpenter, Miss E. F. Chawner, Willoughby Gardner, P. P. Graves, H. C. Gunton, E. T. Hamlyn, G. K. P. Hebbert and S. H. Jaywickreme.

In addition, 12 (18) Fellows have resigned, namely: H. K. Bagnall-Oakley, C. W. Burnard, W. A. L. David, R. S. Ferry, J. Ford, C. J. Galbraith, R. T.

* The numbers in brackets indicate the corresponding figures for 1952.

Harper, G. Holland-Jones, J. B. Noble, F. Shaw, M. R. Smith and D. P. Webley ; and 8 (9) Fellows have been removed from the list in accordance with the Bye-Laws : W. Boddy, P. Chisholm-Forder, F. G. Hawkins, E. L. B. James, N. A. Janjua, B. L. Mitchell, N. C. Pant and D. A. Quirke.

The Society now consists of 20 Honorary Fellows and 1065 Ordinary Fellows, a total of 1085, an increase of 52 for the year.

The *Transactions* and *Proceedings* have continued on the usual pattern, but it has been possible to increase the size of these journals, with some consequent reduction in the delay in publication, particularly in the case of short taxonomic papers.

The *Transactions* (Volume 104) consist of 591 pages, and contain 15 papers, of which 3 deal with Lepidoptera, 3 with Hymenoptera, 2 with Coleoptera, 2 with Diptera, 2 with Homoptera, 1 with Dermaptera, 1 with Hemiptera and 1 with Insect Flight. The volume is illustrated by 3 coloured and 22 half-tone plates and numerous text-figures.

Council is indebted to the Colonial Development and Welfare Fund for a grant to defray the cost of publishing the paper by T. A. M. Nash and W. A. Page on the ecology of *Glossina palpalis* in Northern Nigeria, and to the University of Alberta for substantial assistance in the case of Professor Hocking's important paper on Insect Flight. Very welcome assistance was received from the Royal Society towards the cost of Dr. Long's paper on the effects of population density on the larvae of Lepidoptera, which permitted the inclusion of the two coloured plates which illustrate this paper.

The *Proceedings* were continued in the usual three series as follows :

Series A (General Entomology). Volume 28 consists of 168 pages, and contains 28 papers illustrated by two half-tone plates and many text-figures.

Series B (Taxonomy). Volume 22 consists of 227 pages and contains 38 papers illustrated by two half-tone plates, as well as numerous text-figures.

Series C (Journal of Meetings). A part of *Series C* has been sent to every Fellow in advance of meetings, and a complete volume will be issued with the last part.

Four additional parts of the *Handbooks for the Identification of British Insects* have appeared, namely :

Vol. IV, Part 3.—Coleoptera : Hydradecephaga. By F. Balfour-Browne.

Vol. V, Part 7.—Coleoptera : Coccinellidae and Sphindidae. By R. D. Pope.

Vol. V, Part 15.—Coleoptera : Scolytidae and Platypodidae. By E. A. J. Duffy.

Vol. X, Part 1.—Diptera : Syrphidae. By R. L. Coe.

The Library continues to expand, and the usual service to Fellows has been maintained. During the year the number of books borrowed was 1748 (1911) and the number of Fellows borrowing books 906 (929). 185 (132) loans were made to the National Central Library. Progress has been made with binding, and most of the arrears have now been overtaken. Council is most grateful to Fellows who have presented books and separates to the Society : the latter are especially welcome when they are from journals not received for the library.

The Finance and House Committee under the chairmanship of Lieut.-Colonel W. B. L. Manley, and the Publication and Library Committee under the chairmanship of Miss Clay have continued to conduct the detailed business of the Society, and the Council is grateful for their interest and guidance.

The Committee for the Protection of British Insects has continued its activities under the chairmanship of Mr. H. M. Edelsten, and Council wishes to thank all those who have assisted the work of the Committee by supplying information on

the status of rare or threatened species. During the year it was learned that Oxshott Heath was maintained by voluntary subscription, and donations were made to the Fund both by the Protection Committee and by the Society.

During the year the Society was elected to membership of the Parliamentary and Scientific Committee, the object of which is to provide a permanent liaison between scientific bodies and Parliament, and a centre for the consideration and discussion of scientific information bearing on current proceedings in Parliament. The Treasurer has represented the Society at the meetings of this Committee.

During the year, Council's attention was called by the Ministry of Agriculture and Fisheries to the activities of the Working Party on Precautionary Measures against Toxic Chemicals used in Agriculture, which functions under the chairmanship of Professor Zuckerman. The Ministry stated that this Committee, having dealt with the risks to consumers arising from the use of these substances in agriculture and in the storage of food, had now been asked to extend the range of its investigations to possible risks to the natural flora and fauna and to make recommendations. Careful consideration has been given by the Council of the Society to this problem, which is one of considerable complexity. The Secretary has submitted a summary of the more important works published in the last nine years bearing on the effects of these insecticides on animals other than insect pests.

An addition has been made to the Society's equipment in the purchase of a 16 mm. magazine ciné camera. The camera is available for loan to Fellows visiting places of entomological interest, especially abroad. It is at present on loan to Mr. J. D. Bradley, who is on a visit to Rennell Island, and Council hopes that it will be possible to show a record of his journey at a forthcoming meeting.

A humble message of sympathy was conveyed to Her Majesty the Queen on the death of Her Majesty Queen Mary.

The President and the Honorary Secretary attended Her Majesty's Garden Party at Buckingham Palace in the early summer.

Two covered seats on the route of the Coronation Procession were allocated to the Society by the Ceremonial Division of the Ministry of Works. The tickets were used by Miss Davenport, who kindly invited the Registrar to accompany her.

Mr. Riley represented the Society at the XIVth International Congress of Zoology, held at Copenhagen in August, and at the Colloquium on Zoological Nomenclature which preceded it.

Professor W. A. F. Balfour-Browne and the Editor acted as the Society's delegates to the meeting of the British Association for the Advancement of Science.

Dr. Hickin has represented the Society at the meetings of the Biological Council.

At the end of July, 1954, Council proposes to hold a week-end meeting in York, on the lines of that held in Manchester in 1951. The Rev. T. B. Kitchen has kindly agreed to assume responsibility for the local arrangements, and the broad outline of the programme, which will include a whole day visit to the Spurn Peninsula, has already been agreed. Full details will be sent to Fellows in the spring.

A message of good wishes was sent to Professor W. Roepke on his retirement from the School of Agriculture at the University of Wageningen.

The Society's premises are still used as the Publications Office of the International Trust for Zoological Nomenclature. We have also enjoyed and benefited from the presence of our tenants the Commonwealth Institute of Entomology. It was therefore with regret that Council at its last meeting learnt that the Institute has been forced by its need for more accommodation to arrange to move to larger premises. The Institute has been the tenant of the Society for the past 33 years.

Our relations have always been of the happiest, and the close proximity of the Institute library, which is complementary to our own, has been of the greatest value to the Society. Fortunately the Institute staff in their new premises at 56, Queen's Gate will still be our neighbours, so that we can look forward to a continuance of our previous close and friendly co-operation.

Council feels that the Society itself has now reached a stage when it should consider its future policy, and space which will be available when our tenants vacate the upper floors of the house will, it is hoped, enable them to embark on various improvements, preliminary consideration of which is already in the hands of a sub-committee recently appointed for this purpose.

THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON

STATEMENT OF INCOME AND EXPENDITURE for the Year ended 31st December, 1953.

(Presented at the Annual Meeting, 3rd February, 1954.)

GENERAL FUND.

INCOME.

1952.
£

To Subscriptions—

175
2,822

176
3,173

75
3,038

125
3,163

391

286

2,787

438

3,225

871

31

£ s. d.

147 19 0

2,889 10 5

102 9 9

3,149 19 2

125 0 0

3,024 19 2

150 0 0

3,174 19 2

182 8 0

414 7 8

463 3 3

4,283 8 9

531 0 0

4,814 8 9

532 0 0

366 1 2

898 1 2

44 2 2

EXPENDITURE.

1952.
£

By House Expenses—

423

122

54

26

400

49

1,074

1,431

159

143

42

10

—

57

1,842

540

438

978

3,696

£244

258

14

3,438

£ s. d.

424 10 0

174 4 3

53 19 1

26 8 0

1,200 0 0

85 9 4

1,964 10 8

1,671 15 8

151 10 10

154 17 6

45 0 0

63 0 0

50 0 0

10 0 0

99 6 0

98 2 11

2,343 12 11

523 17 6

531 0 0

1,054 17 6

4,998 8 7

£500 16 1

800 16 1

4,197 12 6

25 0 0

25 0 0

— 0 0

5 0 0

5 0 0

3 3 0

63 3 0

Excess of Income over Expenditure
for year carried to Balance Sheet ..

572

£7,967

£9,991 10 2

367 13 7

£9,991 10 2

BALANCE SHEET, 31st December, 1953.

GENERAL FUND.

	£	s.	d.	£	s.	d.	£	s.	d.
Sundry Creditors	2,277	19	2
Estimated Liability in respect of balance of Publications for Year	200	0	0
Subscriptions received in Advance	147	15	4
EXCESS OF ASSETS OVER LIABILITIES—	647	16	7
As at 31st December, 1952	367	13	7
Add Excess of Income over Expenditure for year to date	1,015	10	2
							1,920	15	10
							126	17	1
							2,047	12	11
							37	1	10
							1,556	9	11
							150	0	0
							1,150	0	0
							228	11	6
							27	18	5
							1,920	15	10
							126	17	1
							2,047	12	11
							37	1	10
							1,556	9	11
							150	0	0
							1,150	0	0
							228	11	6
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							126	17	1
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COMMITTEE FOR THE PROTECTION OF BRITISH INSECTS.

RECEIPTS AND PAYMENTS ACCOUNT for the year ended 31st December, 1953.

RECEIPTS.		PAYMENTS.	
To Balance at Bank 1st January, 1953	£ s. d. 30 18 10	By Expenditure on Preservation of <i>Lycaena dispar batavus</i>	£ s. d. 5 0 0
„ Donations 12 7 0	„ Donation—Oxshott Heath Conservators 5 0 0
	<u>£43 5 10</u>	„ Balance at Bank 31st December, 1953 33 5 10
			<u>£43 5 10</u>

(Sgd.) H. M. EDELSTEIN, *Hon. Treasurer.*

We have audited the above Account of Receipts and Payments and certify it to be correct.

*Finsbury Circus House,
Blomfield Street,
London, E.C.2.
20th January, 1954.*

(Sgd.) W. B. KEEN & Co., *Chartered Accountants.*

WICKEN FEN FUND.

RECEIPTS AND PAYMENTS ACCOUNT for the year ended 31st December, 1953.

RECEIPTS.		PAYMENTS.	
To Donations	£ s. d. 64 16 6	By Printing, Stationery and Postage	£ s. d. 7 9 0
		„ Donation to the National Trust 56 6 6
		„ Balance at Bank 31st December, 1953 1 1 0
	<u>£64 16 6</u>		<u>£64 16 6</u>

(Sgd.) H. M. EDELSTEIN, *Hon. Treasurer.*

We have audited the above Account of Receipts and Payments and certify it to be correct.

*Finsbury Circus House,
Blomfield Street,
London, E.C.2.
20th January, 1954.*

(Sgd.) W. B. KEEN & Co., *Chartered Accountants.*

TREASURER'S REPORT

Dr. N. E. Hickin said :

MR. PRESIDENT AND FELLOWS : It is my privilege to-day to present my report as Treasurer of this Society.

I will endeavour to draw a picture for you of the events covering the year 1953, using as my medium the Balance Sheet and Accounts, which you will have an opportunity of inspecting at the close of the Meeting.

You will have gathered from the Report of Council that 1953 has been a year of steady progress, and I am pleased to be able to say that our financial position reflects the same.

During 1953, our gross income was £10,881—a record for the Society, and £1317 greater than the year previous. It is of interest to note that whereas income from Fellows' subscriptions was almost static, yet income from Sales of Publications shows an increase of nearly £1500. Our interest on investments also shows an increase, this time of £200. For the first time in the Society's Statement of Income we show a sum of £182, being the income tax recovered from covenanted subscriptions—a *fairly* substantial sum—and I want to revert to this item at a later stage in my report.

Now for some remarks on the expenditure side.

It has always been the wish of Fellows, expressed through Council, that our house, so dear to us, and of which we are justly proud, should be maintained at the highest standard of repair, and this year, on the advice of the Society's surveyors, Messrs. Fairbrother Ellis, we carried out a complete external decoration with some extensive roofing and guttering repairs. This cost us £805—a sum rather larger than we had expected, but we consider this money well spent.

What we might call straight housekeeping expenses have increased a little, but we did purchase a duplicating machine and a ciné camera.

The cost of printing our publications this year was practically £5000, but by Grants and Donations the cost shown on the statement is slightly less than the income derived from them—a source of great satisfaction to your Officers and Council.

The amount of our donations has remained constant and an excess of income over expenditure of £367 is shown.

You will recall that the last two paragraphs in Council's Report dealt with the forthcoming termination of the arrangement whereby the Commonwealth Institute of Entomology were our tenants, and to the consideration which is being given by Council to various improvements that might be made to our house. The question of making some of the space available to the Society will inevitably arise.

Towards the end of 1954, therefore, we shall be faced with two problems. Firstly, the question of the cost of making the improvements which Council may decide upon, and secondly, the inevitable loss of income if it is decided to take over more space.

Nearly £900 of our income during 1953 was derived from the Institute either as rent or as contributions to house expenses. In order to compensate for the loss of some of this income I want to make a very earnest plea to those Fellows who pay income tax at the standard rate, and who are not successful in claiming their subscription as a professional expense, to consider very carefully whether they could assist the Society in a substantial manner by covenanting for their subscriptions.

During 1953, 67 Fellows covenanted, which brought in to us £182, and whereas, since this, a further 13 Fellows have decided to help the Society in this way, we feel that there are perhaps as many Fellows again who could help us. A reminder is being circulated to Fellows.

Now, how to meet the cost of making the improvements which the Council may decide upon? This will depend, of course, on what is decided, but I thought it prudent as your Treasurer to alter the title of one of our Funds. The Repairs Fund has been renamed Repairs and Improvements Fund, and by adding together a number of small surpluses I have been able to place £1000 in this fund in addition to the sum of £200 which Council had already recommended should be transferred to this Fund annually.

Amongst our special funds I would like to mention the *Handbooks of British Insects* which continue to do well, and which for the year show an excess of income over expenditure of £202.

During the year we realised that our cash balances were considerably more than we would need for the year's expenses, so that we purchased £1639 worth of $2\frac{1}{2}\%$ Treasury Stock which cost us £1000, and placed it in the Capital Reserve.

Now I feel I must pay tribute to our President and Honorary Officers of the Society who have given me considerable help throughout the year in dealing with the affairs of the Society—some ordinary—some extraordinary.

Also I am deeply in the debt of our Finance and House Committee, under the Chairmanship of Lt.-Col. Manley. The recommendations to Council of these gentlemen have helped in a large measure to give the position I have outlined this afternoon.

To Members of Council I say thank you, also.

To our Registrar and her staff I must express my gratitude, and I must thank them for their never-failing patience with me.

Finally, I have to place before you the Balance Sheet and Accounts for the year ended 31st December, 1953, certified by our auditors, W. B. Keen & Co.

THE PRESIDENT'S REMARKS

LADIES AND GENTLEMEN,

You will have seen from the Council's Report and from the words of the Treasurer that the state of our Society is sound and healthy. It is clear that we form a valuable meeting ground between professional and amateur, between entomologists of many countries and also between those who pursue many of the varied sides of our science. It is also clear that we are appreciated in many and distant parts of the world; this is shown by the number of Fellows from abroad who are elected, many of whom never come to London and who, as we suppose, gain great advantage from our publications.

The Council's Annual Report has given particulars of the number of Fellows elected and the number lost by death and other causes during the year. You will have seen that the total membership is 20 Honorary Fellows and 1065 Ordinary Fellows, an increase of 5 per cent. since last year. I may perhaps, on a later occasion, refer in greater detail to the statistics of increase over the last few decades: for the moment it is sufficient to record that our membership was almost stationary at about 700 from 1920-1944. Since that date there has been a very steady annual rise, the membership passing 1000 in 1951; but though the numerical increase has been rather steady, it will be found that the annual rate of increase is gradually falling off.

And now may I speak for a few moments of those Fellows who have died in the year 1953.

Professor GEOFFREY DOUGLAS HALE CARPENTER, M.B.E., D.M., was born in 1882 and elected to our Society in 1910. He was President in 1945-46 and served on our Council. His grandfather and father were both Doctors of Science and Fellows of the Royal Society. Hale Carpenter received much of his medical education at Oxford and acquired a wide knowledge of the natural history of the countryside. As a medical student he attended a lecture on insect-borne diseases; that, combined with his natural tastes, led him to enter the Colonial Medical Service with a view to the study of tropical medicine. He carried out investigations on the habits of the tsetse fly *Glossina palpalis* in Uganda, working under the Tropical Diseases Committee of the Royal Society. He travelled widely in Uganda and lived for a period on the Sesse Islands in Lake Victoria which had been completely depopulated owing to sleeping sickness. He saw service in East Africa from August, 1914, and remained in Uganda after that war until he retired in 1930, when he undertook a special investigation into tsetse in Ngamiland. During his period in Africa, Carpenter, influenced to a great extent by Professor (later Sir Edward) Poulton, observed and collected insects of many types, giving particular attention to questions of evolutionary interest. He was a patient naturalist and added greatly to our knowledge of that remarkable and variable insect *Papilio dardanus*; also breeding *Pseudacraea eurytus* and demonstrating the truth of Karl Jordan's conclusion that certain apparently diverse butterflies are all forms of that single species. He became much interested in the relative edibility of insects, testing them on monkeys and other animals and contributing a long paper on this subject to our *Transactions* for the year 1921.

Carpenter produced two books which gave a general account of his observations on the natural history of the area round Lake Victoria.

EDWIN DILLON BOSTOCK, elected a Fellow in 1902, was a collector of Macrolepidoptera who worked in Cannock Chase, the New Forest, the Purbeck Hills, etc., and towards the end of his life at Folkestone. His collection included much that was rare and remarkable, including a series of 90 specimens of the British race of the Large Copper Butterfly.

Dr. WINIFRED BRENCHLEY, O.B.E., D.Sc., became a Fellow of this Society in 1920. She was a professional horticulturalist and made investigations, first on the effect of metallic salts and other substances upon plants grown by water culture, and secondly on the flora which develops on cultivated ground. After a period at Swanley Horticultural College under F. W. Oliver, she moved in 1906 to an appointment at Rothamsted. There she became closely associated with Dr. A. D. Imms, with whom she frequently collected in the field. Her entomological interest was principally in the Lepidoptera.

CECIL JOSLIN BROOKS, born in 1875, became a Fellow of the Society in 1925. Trained as a chemist, he took a position in Sarawak in 1900 and became much impressed with the magnificent flora and fauna around him. He therefore commenced to collect material of many types, particularly of the ferns, collaborating often with John Hewitt, who was at that time Curator of the Sarawak Museum. He travelled widely in Borneo, also in other islands of the Malayan region. Retiring rather young, he gave his time to working out his collections and revising various genera of Rhopalocera. He published a number of short entomological papers and the revision of the genus *Tenaris* (Amathusiidae) in our *Transactions* in 1950.

Miss ETHEL FRANCES CHAWNER was elected to the Society in 1897 and remained a Fellow of it at the time of her death. She lived for many years at Lyndhurst and it was probably contact with Mr. Trimen and Colonel Yerbury in that neighbourhood that introduced her to entomology. Her principal interest was in the biology of sawflies; she discovered for the first time the previously unknown larvae of *Selandria serva* F. and *Tenthredo perkinsi* (Morce), and she captured the first British specimens of *Gilpinia hercyniae* (Hartig), *Nematus fagi* Zaddach and *Pristiphora geniculata* (Hartig). Her manuscript notes and some of her specimens were presented to the British Museum (Natural History) in 1929. She published extremely little. Miss Chawner was also a competent botanist and she was much interested in ornithology, including the maintenance of birds in captivity. During the recent war she not only housed that part of the Society's library which relates to the Hymenoptera but maintained a postal loan service so that those books continued to be available to workers.

Dr. WILLOUGHBY GARDNER, who was born in 1860, was elected to our Society in 1901. He had a great variety of interests and enthusiasms and was best known as an archaeologist and for his field work and excavations in Wales. In entomology he worked on the Hymenoptera aculeata, publishing a list of those insects known to occur in Lancashire and Cheshire in 1901. He was also interested in the history of entomology and combined his entomological and antiquarian interests in an account of Thomas Penny, an entomologist in the time of Queen Elizabeth I. This was delivered as a Presidential Address to the Lancashire and Cheshire Entomological Society in 1928. Dr. Gardner presented to our Society an ancient book by Pena (Petrus) and L'Obel (Matthias), *Nova stirpium adversaria*, Antwerp, 1576. This copy had been formerly in the possession of Thomas Mouffet and contains his signature, and will be exhibited after to-day's meeting.

PHILIP PERCEVAL GRAVES, who was a Fellow of our Society from 1911 to 1953, was an authority on the politics of the Balkans and of the Arab world and was correspondent of *The Times* in the Near East. He combined a very lively tongue, a precise memory and a taste for sober history with a great knowledge of natural history, particularly of butterflies. His only considerable paper was one on the butterflies of Palestine and Trans-Jordan, published in the *Transactions* of our Society, 1925. At the end of his life Graves settled in Ireland: his studies of Irish butterflies led him to differentiate the Irish form of *Maniola jurtina* as ssp. *iernes* (*Entomologist* 63 : 49).

EDWARD TREMAYNE HAMLYN was only elected to the Society in 1952. He was interested in the insects of Dartmoor and was closely associated with the Plymouth Athenaeum to which he left his collection and books.

Major G. K. P. HEBBERT was a Fellow of this Society from 1929-1933 and from 1944 until his death in 1952. He was interested in the geographical distribution of insects and in the evolution of *Papilio* in the Malay Archipelago.

SAMUEL HUBERT JAYEWICKREME (1908-1953) was elected to our Society in 1937. He held a succession of entomological posts in the Department of Health of the Government of Ceylon. His professional work was concerned with biting insects of Ceylon and particularly with the habits of species of *Anopheles*. During the period of the late war, owing to outbreaks of scrub typhus, he transferred his attention to the "harvest mites" (larvae of *Trombicula*), a difficult problem; he was singularly successful in developing methods of rearing these animals and completing their life history.

NORMAN HUMBERT JOY was a Fellow of the Society from 1902 to 1940. He was a medical man with a wide interest in birds and insects. His principal contribution to entomology was his *Practical Handbook of British Beetles*, in two volumes, which placed great reliance on simple outline drawings and a type of key designed for the worker without advanced knowledge of the group. Dr. Joy was one of the first to study the insect fauna of the nests of birds and moles.

Major HERBERT CHARLES GUNTON, M.B.E., was a Fellow of the Society from 1920 to 1953. He was an electrical engineer of great ability and served on the staff of the Post Office for many years. He was a collector of the British Macrolepidoptera and was much interested in the effects of climate upon the numbers of insects and upon the date of emergence. When he retired in 1934 he became interested in the tabulation of these records and took over the phenological investigation of the Royal Meteorological Society, editing the annual *Phenological Report* for the years 1937-1947. He exhibited great ingenuity in condensing a vast amount of information into graphs and diagrams.

The following entomologists of note, never Fellows of the Society, have died during the year:

KARL BÖRNER, born in 1880, died in 1953, spent most of his scientific career in the Biologische Reichsanstalt for Agriculture and Forestry at Berlin-Dahlem and at the Naumburg branch of the same organisation, where he directed research into pests of the orchard and vineyard, his personal investigations being mostly on the aphids. On these insects he carried out experimental work on a number of pests and selected stocks of vine and apple immune to certain types of aphid. He worked also on the systematics of the aphids producing a European catalogue in 1952.

HAROLD KIRBY, born in Canada in 1900, was trained by Professor Kofoid in California. His work was on the remarkable Protozoa which live in the digestive systems of termites living on wood.

Dr. S. MADWAR was an Egyptian medical man who worked in Cambridge with Professor D. Keilin on the early stages of the Mycetophilidae, on which he published an important paper in 1937. He then returned to Egypt and at the time of his death was Director of the Endemic Diseases Department in the Ministry of Public Health at Cairo. During his period in Egypt he was much occupied with administrative work, but he was able to carry out and assist others to carry out sound, valuable work on mosquitoes, houseflies and insects of medical importance.

May I close my remarks by returning my thanks to you for my election for a second year as President and make my acknowledgments to the Honorary Secretary, Treasurer and Editor, the Registrar and other members of the staff and to the members of the Society's Council and Committees.

BENEFACTIONS.

List of Donations of the amount or value of Twenty pounds and upwards.

1852.

Miss BROMFIELD, 67 volumes from the library of W. A. Bromfield.

1861.

H. T. STANTON, towards cost of alterations of premises, £25.

1864.

J. W. DUNNING, £123 5s.*

1867.

The same, towards cost of publications, £105.

1868.

H. J. FUST, towards the cost of his paper on Geographical Distribution, £25.
The ROYAL SOCIETY, for the same, £25.

1869.

J. W. DUNNING, £50.
W. W. SAUNDERS, cost of drawing and engraving 24 plates for Pascoe's "Longicornia
Malayana."

1870.

J. W. DUNNING, £20.
The same, the entire stock of eight vols. of the Transactions.

1872.

The same, towards cost of publications, £50.

1875.

The same, cost of removal of Library and new book-cases, £99 17s. 4d.

1876.

The same, towards cost of publications, £150.

1879.

H. T. STANTON, £20 10s. 6d.

1880.

The same, £20.

1881.

J. W. DUNNING, towards cost of publications, £40.
H. T. STANTON, for the same, £25.

1882.

The same, £30.

1883.

The same, £35.

* It has not always been possible to find the exact purpose for which the earlier money gifts were intended, but they appear to have been usually in support of the publications.

1884.

J. W. DUNNING, £50.
H. T. STANTON, £40.
W. B. SPENCE, his late father's library.

1885.

J. W. DUNNING, £35.
The same, the whole cost of the Society's Charter.

1893.

The same, towards cost of publishing the Library Catalogue, £25.

1894.

The same, £45.
The Misses SWAN, £250 for the "Westwood Bequest," the interest to be used for plates in the Transactions.
F. D. GODMAN (in this and subsequent years), "Biologia Centrali-Americana."

1898.

Mrs. STANTON, about 800 volumes and pamphlets from H. T. Stanton's Library.

1899.

S. STEVENS, Legacy, £100.

1902.

G. W. PALMER, M.P., towards cost of printing G. A. K. Marshall's paper on the Bionomics of African Insects, £30.
Prof. E. B. POULTON, towards cost of plates, £65.

1903.

H. J. ELWES, cost of plates to illustrate his paper on the Butterflies of Chile, £36 18s. 2d.
F. D. GODMAN, cost of plates to illustrate his paper on Central and S. American Erycinidae.

1904.

H. L. L. FELTHAM, towards cost of plates for R. Trimen's paper on S. African Lepidoptera, £20.

1906.

The same, towards cost of plates for R. Trimen's paper on African Lepidoptera, £20.

1908.

E. A. ELLIOTT (in this and subsequent years), Wytsman's "Genera Insectorum."

1909.

CH. OBERTHÜR (in this and subsequent years), his "Lépidopterologie comparée."

1910.

Dr. T. A. CHAPMAN, towards cost of plates for his papers on Life-histories of Lepidoptera, £25.

1911.

Sir G. KENRICK, Bart., cost of plates for his paper on Butterflies of Dutch New Guinea, £54.

1912.

Dr. T. A. CHAPMAN, cost of plates for his papers on Life-histories of Lepidoptera, £35 6s. 5d.

1913.

The ROYAL SOCIETY, towards the publication of D. Sharp's paper on the Genitalia of Coleoptera, £60.

1914.

F. D. GODMAN, cost of plates for G. C. Champion's papers on Mexican and Central American Coleoptera, £22 7s. 6d.
G. T. BETHUNE-BAKER, cost of 12 plates illustrating his Presidential Address.

1915.

J. J. JOICEY, cost of plates for his papers on Lepidoptera from Dutch New Guinea, £82 11s.
Dr. G. B. LONGSTAFF, cost of plates for Dr. Dixey's paper on New Pierines, £32.

1916.

Dr. T. A. CHAPMAN, for plates, £68 7s. 3d.

1917.

Mrs. MELDOLA, for books for the Library, £31 10s.
E. E. GREEN, large binocular microscope.

1919.

Dr. T. A. CHAPMAN, F.R.S., cost of plates to illustrate his papers, £56 19s. 3d.

1920.

Donations in aid of the purchase of 41, Queen's Gate—

Dr. G. B. LONGSTAFF, £1000.

The Honble. N. C. ROTHSCHILD, £500.

Dr. H. ELTRINGHAM, Sir G. H. KENRICK, The Rev. F. D. MORICE, W. G. SHELDON
each £100.

R. ADKIN, G. T. BETHUNE-BAKER, Dr. T. A. CHAPMAN, W. M. CHRISTY, H. MASSEY,
Prof. E. B. POULTON, each £50.

B. H. CRABTREE, E. E. GREEN, Dr. G. A. K. MARSHALL, G. A. J. ROTHNEY, each £25.
H. E. ANDREWES, £21.

H. J. ELWES, E. B. NEVISON, G. T. PORRITT, O. WHITTAKER, each £20.

Dame ALICE GODMAN, book-shelves and fittings for the Library.

J. J. JOICEY, in aid of the furnishing of 41, Queen's Gate, £100.

Dr. T. A. CHAPMAN, F.R.S., cost of plates to illustrate his paper, £30.

1921.

Donations in aid of the purchase of 41, Queen's Gate—

The Rt. Hon. LORD ROTHSCHILD, £105.

W. M. CHRISTY, £50, making with a similar donation in 1920, £100 in all.

W. G. F. NELSON, £63, reduction of solicitor's charges.

W. J. KAYE, £50.

W. SCHMASSMAN, £50.

R. ADKIN, £40, cancellation of debentures drawn.

E. C. BEDWELL, £28 7s. 6d., reduction of surveyor's charges.

H. WILLOUGHBY ELLIS, £26 5s.

Lt.-Col. R. S. WILSON, £25.

H. ST. JOHN K. DONISTHORPE, £21.

Miss E. F. CHAWNER, £20.

Sir JOHN T. D. LLEWELYN, Bart., £20.

K. J. MORTON, £20.

J. J. JOICEY, Lantern and Stand for the Meeting Room.

Dr. T. A. CHAPMAN, F.R.S., £29 5s., to illustrate his paper in the Transactions, 1920.

The Rt. Hon. LORD ROTHSCHILD, £22 15s. 4d., cost of plates in the Proceedings for 1920.

JESUS COLLEGE, OXFORD, through Prof. E. B. POULTON, F.R.S., £100.

1922.

Donations in aid of the purchase of 41, Queen's Gate—

The Misses CHAPMAN, in memory of their brother, the late Dr. T. A. Chapman, F.R.S.,
£500.

G. A. J. ROTHNEY (bequest), £150.

R. ADKIN, £70, cancellation of debentures drawn.

E. E. GREEN, £25 (making £50 in all).

W. H. B. FLETCHER, £25.

Sir A. BUCHAN-HEPBURN, Bart., £20.

E. W. ADAIR, £20.

The Misses CHAPMAN, two bookcases.

1923.

Donations in aid of the purchase of 41, Queen's Gate—

The Honble. N. C. ROTHSCHILD (bequest), £1000.

R. ADKIN, £90, cancellation of debentures drawn (making £200 in all).

A. C. F. MORGAN, £20.

H. J. TURNER, £20.

1924.

Donations in aid of the purchase of 41, Queen's Gate—

E. D. BOSTOCK, £21.

Miss M. E. FOUNTAINE, £20.

H. H. C. J. DRUCE (bequest), £1000, interest to be spent on new books.

Prof. E. B. POULTON, F.R.S., authorised contribution from the Fund for promoting the study of organic and social evolution, presented to the University of Oxford by Professor J. Mark Baldwin, £130 15s. 4d.

JESUS COLLEGE, OXFORD, through Prof. E. B. Poulton, F.R.S., £125.

H. WILLOUGHBY ELLIS, contribution towards new electric light installation at 41, Queen's Gate, £50.

1925.

A. H. JONES (bequest), £100.

G. T. BETHUNE-BAKER, £30, towards the cost of the plates in his paper.

E. A. ELLIOTT, in continuation of his practice since 1908, Wytsman's "Genera Insectorum," amounting to a total value of £225.

THE ROYAL SOCIETY, £100, towards the cost of Mr. H. S. Pruthi's paper.

1926.

THE ROYAL SOCIETY, £150, towards the cost of Mr. Warren's paper.

1927.

Rev. F. D. MORICE (bequest), £200.

Prof. E. B. POULTON, F.R.S., authorised contribution from the Fund for promoting the study of organic and social evolution, presented to the University of Oxford by Professor J. Mark Baldwin, £40 16s.

1928.

R. W. LLOYD, the entire cost of the panelling and ceiling in the new Meeting Room, together with the Presidential Desk and Chair.

Col. J. W. YERBURY (bequest), £50.

1929.

THE EMPIRE MARKETING BOARD, £96 8s. 5d., the entire cost of Mr. B. P. Uvarov's paper.

Prof. E. B. POULTON, F.R.S., authorised contribution from the Fund for promoting the study of organic and social evolution, presented to the University of Oxford by Professor J. Mark Baldwin, £85 11s.

THE ROYAL SOCIETY, £90, towards the cost of Mr. F. W. Edwards' paper.

1930.

R. ADKIN, the entire cost of the epidiascope and screen.

Dr. K. JORDAN, £50 donation in aid of building the new Meeting Room.

H. WILLOUGHBY ELLIS, £50 donation in aid of building the new Meeting Room.

Dr. R. STEWART MACDOUGALL, £110, being the cost of a bookcase and table for the Library, in memory of his wife.

JESUS COLLEGE, OXFORD, through Professor E. B. Poulton, F.R.S., £25.

Mdme. A. DE HORRACK-FOURNIER, cost of plate illustrating Mr. Lathy's paper, £20 5s.

THE TRUSTEES OF THE CARNEGIE (U.K.) FUND, £500 for the purchase of books for the Library.

Mrs. EATON, a selection of books from the Library of her husband.

E. A. ELLIOTT, in continuation of his practice since 1908, Wytsman's "Genera Insectorum."

P. I. LATHY, "Thèses entomologiques," copy No. 2, including a proof set of the plates uncoloured.

1931.

EMPIRE MARKETING BOARD, towards the cost of Mr. B. P. Uvarov's paper, £231.

Prof. E. B. POULTON, F.R.S., authorised contribution from the Fund for promoting the study of organic and social evolution, presented to the University of Oxford by Professor J. Mark Baldwin, £110.

JESUS COLLEGE, OXFORD, through Prof. E. B. Poulton, F.R.S., £20.

BOARD OF THE CARNEGIE FUND IN SOUTH AFRICA, the entire cost of the plates illustrating Prof. A. J. T. Janse's paper.

1932.

Prof. R. MELDOLA (bequest), £450.

Prof. E. B. POULTON, F.R.S., authorised contribution from the Fund for promoting the study of organic and social evolution, presented to the University of Oxford by Prof. J. Mark Baldwin, £50

JESUS COLLEGE, OXFORD, through Prof. E. B. Poulton, F.R.S., £30.

Dr. F. MORTON JONES, cost of plate illustrating his paper, £20 10s.

Donations to Centenary Fund—

Fleet-Paymaster T. BAINBRIGGE FLETCHER, R.N., £35.

C. W. Mackworth PRAED, £26 5s.

R. ADKIN, £25.

Prof. W. A. F. BALFOUR-BROWNE, F.R.S.E., £20.

Dr. H. ELTRINGHAM, F.R.S., £20.

1933.

Donations to Centenary Fund—

Prof. E. B. POULTON, F.R.S., £100.

Prof. W. A. F. BALFOUR-BROWNE, F.R.S.E., £20, making with a similar donation in 1932, £40 in all.

H. WILLOUGHBY ELLIS, £20.

LORD ROTHSCHILD, F.R.S., £20.

EMPIRE MARKETING BOARD, towards the cost of the paper by O. W. Richards and W. S. Thomson, £75.

THE HIGH COMMISSIONER FOR INDIA, towards the cost of the paper by U.S. Sharga, £30.

1934.

THE ROYAL SOCIETY, £75, towards the cost of Dr. O. W. Richards' paper.

1935.

R. ADKIN (bequest), £250, and a selection of the books from his library.

R. W. LLOYD, the entire cost of Jacob Huebner's collection of manuscripts, plates and drawings.

C. B. HOLMAN-HUNT (bequest), £100, for the Library.

THE ROYAL SOCIETY, £70, towards the cost of Prof. G. D. Hale Carpenter's paper.

Fleet-Paymaster T. BAINBRIGGE FLETCHER, R.N., a selection of the books from his library.

H. G. CHAMPION, a selection of books from the library of the late G. C. Champion.

1936.

THE TRUSTEES OF THE HERBERT SPENCER ESTATE, £1241, being one-twelfth part of the residuary estate of Herbert Spencer.

THE GOVERNMENT OF TANGANYIKA TERRITORY, £330, towards the cost of Mr. C. F. M. Swynnerton's paper.

Miss C. LONGFIELD, £33 15s., being the cost of her paper.

THE CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND, £23 13s., towards the cost of Mr. R. Carrick's paper.

1937.

THE ROYAL SOCIETY, £100, towards the cost of Mr. Francis Hemming's book on *Jacob Hübner*.

1938.

THE ROYAL SOCIETY, £72, towards the cost of Prof. C. E. Mickel's paper.

1939.

W. S. GILLES (bequest), £2000.

J. J. WALKER (bequest), £100.

R. W. LLOYD, £20, towards the cost of purchase of a set of the *Journal of the Asiatic Society of Bengal*.

Dr. R. VERITY, the cost of 8 plates illustrating his paper.

THE IMPERIAL INSTITUTE OF ENTOMOLOGY, Locust Research Fund, £100, towards the cost of Dr. J. S. Kennedy's paper.

THE ROYAL SOCIETY, £80, towards the cost of Dr. O. W. Richards' paper.

1940.

W. S. GILLES (bequest), £1600.

1941.

Dr. L. G. HIGGINS, £200, towards the cost of his paper.
 W. S. GILLES (bequest), £101 11s. 4d.
 Miss M. E. FOUNTAINE (bequest), £100.
 Miss JANET RIDDELL, £50, towards the cost of her paper.
 THE ROYAL SOCIETY (on behalf of the Rockefeller Foundation Gift in aid of Scientific Publications), £50.

1942.

THE ROYAL SOCIETY, £100, from the Government Publications Fund towards the cost of Dr. C. B. Williams' paper.
 THE ROYAL SOCIETY, £100, from the Rockefeller Foundation Gift in aid of Scientific Publications.
 The Estate of the late D. S. WILKINSON, £200, towards the cost of publishing Lieut. Wilkinson's paper on *Apanteles*.

1943.

THE ROYAL SOCIETY, £100, from the Government Publications Fund.
 THE ROYAL SOCIETY, £200, from the Rockefeller Foundation Gift in aid of Scientific Publications.

1944.

THE ROYAL SOCIETY, £250, from the Rockefeller Foundation Gift in aid of Scientific Publications.
 THE EGYPTIAN GOVERNMENT, £115, towards the cost of Dr. A. A. G. Hassan's paper.
 Prof. G. D. HALE CARPENTER, £50, from the E. B. Poulton Fund towards the cost of the paper by himself and Dr. B. M. Hobby.

1945.

THE ROYAL SOCIETY, £330, from the Government Grant in aid of Scientific Publications.
 THE ROYAL SOCIETY, £250, from the Rockefeller Foundation Gift in aid of Scientific Publications.

1946.

THE ROYAL SOCIETY, £240, from the Government Grant in aid of Scientific Publications.
 Prof. T. D. A. COCKERELL, £200, donation to Library Catalogue Fund.
 Mr. H. E. ANDREWES, his entire library of works on Coleoptera.

1947.

THE ROYAL SOCIETY, £600, from the Government Grant in aid of Scientific Publications towards the cost of the *Handbooks on British Insects*.
 TRINITY COLLEGE, DUBLIN, £50, towards the cost of Dr. B. P. Beirne's paper.
 THE ROYAL SOCIETY, £364 3s. 6d., from the Government Grant in aid of Scientific Publications, being the cost of Dr. J. W. Evans' paper.

1948.

THE ROYAL SOCIETY, £366, from the Government Grant in Aid of Scientific Publications.
 HUGH MAIN (bequest), £100.
 AN ANONYMOUS FELLOW, £52 10s. towards the purchase of books for the Library.
 THE ANTI-LOCUST RESEARCH CENTRE, £50, towards the cost of Dr. B. P. Uvarov's paper.
 THE EAST AFRICAN TSETSE RESEARCH ORGANISATION, £21 13s. 8d., being the cost of the plates illustrating Dr. C. H. N. Jackson's paper in *Proceedings Series A*.
 C. J. WAINWRIGHT (bequest), a first selection of the books from his library and the whole of his large collection of reprints.

1949

THE ROYAL SOCIETY, £250, from the Government Grant in aid of Scientific Publications towards the cost of the Rev. C. E. Tottenham's paper.
 THE E. B. POULTON FUND FOR THE STUDY OF EVOLUTION, £200, towards the cost of the coloured plates illustrating Professor G. D. Hale Carpenter's paper.
 Mr. R. W. LLOYD, £116 7s. 9d., being the balance of the cost of the coloured plates illustrating the above paper.
 Dr. F. L. VANDERPLANK, £52 10s. 4d., being the cost of the coloured and half-tone plates illustrating his papers in *Proceedings Series B*.

1950.

THE ROYAL SOCIETY, £250, from the Government Grant in aid of Scientific Publications towards the cost of the *Handbooks on British Insects*.

THE ROYAL SOCIETY, £350, from the Government Grant in aid of Scientific Publications towards the cost of the paper by Dr. O. W. and Dr. M. J. Richards.

HUGH MAIN (bequest), £958 11s. 2d.

£400 0s. 0d. 3 per cent. Savings Bonds, 1960/1970.

£2307 7s. 4d. 3 per cent British Electricity Bonds, 1968/1973.

The Estate of the late W. S. GILLES (bequest), £80 7s. 5d.

MR. T. H. E. JACKSON, £50 5s. 6d., being the cost of the coloured plate illustrating the paper by himself and Professor G. D. Hale Carpenter in *Proceedings Series B*.

MR. C. J. BROOKS, £50, towards the cost of his paper.

H. J. TURNER (bequest), a first selection of the books from his library and the whole of his large collection of reprints.

1951.

THE ROYAL SOCIETY, £550, from the Government Grant in Aid of Scientific Publications.

THE SUDAN GOVERNMENT, £100, towards the cost of the paper by Dr. R. Kirk and Mr. D. J. Lewis.

THE COLONIAL DEVELOPMENT AND WELFARE FUND, £55 3s. 4d., towards the cost of the above paper.

THE UNIVERSITY OF GLASGOW, £50, towards the cost of Dr. J. W. H. Lawson's paper.

MR. T. H. E. JACKSON, £48 15s. 5d., being the cost of the coloured plate illustrating his paper in *Proceedings Series B*.

1952.

THE ROYAL SOCIETY, £225, from the Government Grant-in-Aid of Scientific Publications.

HUGH MAIN (Bequest), £339 3s. 4d.

£5312 3s. 7d. British Transport 3 per cent. Stock, 1978-1988.

£5000 0s. 0d. British Electricity 3 per cent. Stock, 1974-1977.

£1692 12s. 8d. British Electricity 3 per cent. Stock, 1968-1973.

1953.

THE ROYAL SOCIETY, £200, from the Government Grant-in-Aid of Scientific Publications.

THE COLONIAL DEVELOPMENT AND WELFARE FUND, £418 9s. 11d. being the cost of the paper by Dr. T. A. M. Nash and Mr. W. A. Page.

THE UNIVERSITY OF ALBERTA, £181. 6s 2d., towards the cost of the paper by Professor Brian Hocking.

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